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16. ABSTRACT

Over 5000 publications pertaining to lead are listed in this bibliography. For the most part, these are articles dealing with the health effects of lead published since 1977. Each entry was verified against an actual copy of the publication it represents; particular attention was devoted to the accuracy and consistency of the information presented here.

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PREFACE

This bibliography is a by-product of the production of the U.S. Environmental Protection Agency's (1986) Air Quality Criteria for Lead by EPA's Environmental Criteria and Assessment Office at Research Triangle Park, North Carolina. Air quality criteria documents review and assess the available information regarding the relationship between concentrations of a pollutant in the ambient atmosphere and its effects on the public health and welfare. The documents provide the scientific basis for EPA's decisions concerning national standards for air quality.

Updating of EPA's original (1977) criteria document for lead began in 1981 with the compilation of relevant scientific articles, reports, and documents published since 1977. The process of collecting references for this bibiliography continued until September 1985 and was aided by periodic computer searches of literature databases and by reading or scanning of current literature.

It should be noted that the overlap between articles cited in the criteria document and those listed here is not 100 percent. Many more articles pertaining to lead were included in the bibliography than were suitable for the criteria document. Also, certain background literature used in the criteria document was omitted from the bibliography because it did not deal with lead *per se*. Virtually every item in this bibliography was actually obtained and examined to verify the accuracy of the information given here. Because of the lag in obtaining copies of some reports, coverage of the literature appearing in 1985 is less complete than for the years 1978-1984. A number of the more significant articles published prior to 1978 were also included.

Reflecting the criteria document's emphasis on the public health effects of lead, this bibliography focuses particularly on scientific literature dealing with lead's biomedical effects. Somewhat less, but still considerable, attention is given to ecological effects, atmospheric processes, environmental measurements, and other topics covered in the lead criteria document. Relatively little coverage is devoted to aspects of lead such as methods for controlling its release into the environment or the clinical treatment of lead-poisoned persons, because these topics fall outside the scope of the criteria document.

Although a separate document, Ambient Water Quality Criteria for Lead (U.S. Environmental Protection Agency, 1980), is concerned more specifically with lead in water, the overlap in coverage between the air quality and water quality criteria documents is considerable. This overlap is evident in the present bibliography, which includes scientific studies of lead's health effects without regard to the medium of exposure.

This bibliography is the result of the efforts and contributions of numerous individuals. Particular acknowledgement is owed to Sherry Stubbs of Systems Research and Development (SRD) Corporation, who handled most of the details of verifying and entering information into the bibliography. Deborah

Staves assisted in this effort, along with Gayle Webster, who did virtually all of the word processing. Mary Williamson and Mike Lesh, also of SRD, helped as well.

Various individuals with Northrop Services, Inc. (NSI) also played important roles in obtaining and filing the articles. Those individuals included Kathryn Flynn, Patricia Tierney, John Bennett, Tami Jones, Carolyn Stephens, and Barbara Best-Nichols. Monitoring SRD's and NSI's efforts for EPA on a day-to-day basis were Vandy Bradow and Douglas B. Fennell, the latter of whom also coordinated the computer searches and formulated the style and format conventions used in this bibliography.

Members of the Environmental Criteria and Assessment Office's scientific staff involved in the preparation of the revised Air Quality Criteria for Lead had primary responsibility for identifying articles, judging their relevance for inclusion here, and proof-reading the final product. Listed alphabetically, they were: J. Michael Davis, Ph.D., Robert W. Elias, Ph.D., Dennis J. Kotchmar, M.D., and David E. Weil, Ph.D. Finally, several contributors and reviewers for Air Quality Criteria for Lead indirectly assisted this effort by noting articles to be cited in the criteria document. Particular thanks goes to Paul Mushak, Ph.D., of the University of North Carolina School of Medicine, who reviewed the bibliograpy and suggested additional entries.

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